Element Performance Inspection (EPI) Data Collection Tool 4.2.8 Simulators / Training Devices (OP)

ELEMENT SUMMARY INFORMATION

Purpose of this Element (certificate holder's responsibility):

• To ensure that simulators, training devices and training aids meet the requirements of the Air Carrier's FAA Approved Training Program.

Objective (FAA oversight):

- To determine the effectiveness of the certificate holder's procedures in meeting the desired output of the process.
- To determine if the certificate holder follows its procedures, controls, process measurements, and interfaces for the Simulators/Training Devices process.
- To determine if there were any changes in the personnel identified by the certificate holder as having responsibility and/or authority for the Simulators/Training Devices process.

Specific Instructions:

 To accomplish this EPI, the inspector should have a basic understanding of the simulator approval process. This EPI should be accomplished at various locations where the certificate holder trains its crewmembers.

Related EPIs:

- 4.2.1 Maintenance Training Program (AW)
- 4.2.2 RII Training Requirements (AW)
- 4.2.3 Training of Flight Crewmembers (OP)
- 4.2.4 Training of Flight Attendants (OP)
- 4.2.6 Training of Station Personnel (OP)
- 4.2.7 Training of Check Airmen and Instructors (OP)
- 4.2.10 Aircrew Designated Examiner (ADE) Program (OP)

SUPPLEMENTAL INFORMATION

Specific Regulatory Requirements (SRRs):

- SRRs:
 - 121.135(a)(1)
 - 121.135(b)(1)
 - 121.135(b)(2)
 - 121.135(b)(3)
 - 121.407(a)
 - 121.407(c)
 - 121.407(d)
 - 121.409(b)
 - 121.409(d)
 - 121.921(a)(1)
 - 121.921(a)(2)
 - 121.921(a)(3)

SRRs:

121.921(a)(4)

121.921(b)(1)

121.921(b)(2)

121.921(b)(3)

Related CFRs & FAA Policy/Guidance:

• Related CFRs:

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• FAA Policy/Guidance:

FAA Order 8400.10, Volume 3, Chapter 3

AC 120-40B

AC 120-45A

EPI SECTION 1 - PERFORMANCE OBSERVABLES

Objective: (FAA oversight responsibility): The tasks and questions in this section of the data collection tool (DCT) are designed to assist the inspector in determining if the certificate holder follows its written procedures and controls and meets the established performance measures of the process. To accomplish this, questions have been generated to test both the outputs of the process as well as the process itself. Question 1 and its following subquestions are directed at the output(s) of the process, whereas questions 2-6, when answered, should be directed at the process itself

Tasi	Tasks		
	To meet this objective, the inspector must accomplish the following tasks:		
1.	Review the information listed in the Supplemental Information section of this DCT.		
2.	Review the policies, procedures, instructions and information for the Simulators/Training Devices process contained in the certificate holder's manual.		
3.	Review the last accomplished associated safety attribute inspection (SAI) for this element with emphasis on the controls, process measurements and interface attribute section responses.		
4.	Observe the Simulators/Training Devices process to gain an understanding of the procedures, instructions and information contained in the certificate holder's manual.		
5.	Discuss the Simulators/Training Devices process with the personnel (other than management) who perform the duties and responsibilities required by the process.		

Ques	Questions				
	To mee	et this objective, the inspector must answer the following questions:			
1.	Determine whether the following performance measures were met:				
1.1.	Were usage of simulators and training devices consistent with authorizations and approvals?		☐ Yes ☐ No, Explain		
	Related	d Performance JTIs:			
	1.	Check at the Training Center that the certificate holder has, for it's use, a simulator located outside the United States that was approved for use by U.S. operator's to train or certificate airmen from the United States. <i>Sources:</i> Advisory Circular 120-40B, dated 07/29/91, Paragraph 7d.			
	2.	Check at the Training Center that the certificate holder has, for it's use, an approved training device used for training of airmen within an operator's training program.			
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph 5a.			
1.2.		ne certificate holder's simulators and training devices maintained in ance with the regulations?	☐ Yes ☐ No, Explain		
	Related	d Performance JTIs:			
	1.	Check at the Training Center that the certificate holder has for it's use an airplane simulator, to be used for training, is given a daily functional preflight check before being used in accordance with certificate holder procedures.			
		Sources: 121.135(b)(1); 121.407(a)(4)			
	2.	Check at the Training Center that the certificate holder has for it's use an airplane simulator, to be used for checks, is given a daily functional preflight check before being used in accordance with certificate holder procedures.			

		Sources: 121.135(b)(1); 121.407(a)(4)	
	3.	Check at the Training Center that the certificate holder has for it's use an airplane simulator, being used for training has a daily discrepancy log.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	4.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for checks has a daily discrepancy log.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	5.	Check at the Training Center that the certificate holder's instructors enter daily discrepancies in the discrepancy log at the end of each training flight in accordance with certificate holder procedures.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	6.	Check at the Training Center that the certificate holder's check airmen enter daily discrepancies in the discrepancy log at the end of each check in accordance with certificate holder procedures.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	7.	Check at the Training Center that a ground training device with varying levels of sophistication, used for systems integration training, was individually evaluated by the Principal Operations Inspector.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-242, Paragraph 445.	
	8.	Check at the Training Center that the certificate holder has, for it's use, a simulator that was evaluated by the National Simulator Evaluation Program using procedures and criteria from this Advisory Circular.	
		Sources: Advisory Circular 120-40B, 07/29/91, Paragraph 7a.	
	9.	Check at the Training Center that the certificate holder has, for it's use, an approved simulator(s) used for training or certification of airmen within an operator's training program.	
		Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7b.	
	10.	Check at the Training Center that the certificate holder has, for it's use, a simulator specifically approved for the level of qualification for use within a specific training program.	
		Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7c.	
	11.	Check at the Training Center that the certificate holder has, for it's use, Level 6 and Level 7 training devices that were evaluated and qualified by the National Simulator Evaluation Program.	
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.	
	12.	Check at the Training Center that the certificate holder has, for it's use, Level 2 through Level 5 training devices that were evaluated and qualified by the Principal Operations Inspector.	
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.	
1.3.	Were th	ne certificate holder's training devices representative of the aircraft	Yes
		ed by the certificate holder?	☐ No, Explain
		d Performance JTIs:	
	1.	Check at the Training Center that the certificate holder has, for it's use, an approved cabin mock up training device that is being used for operational doors, window exits, slides, rafts and other equipment utilized in emergency drill training.	
		Sources: 8400.10, Volume 3 Chapter 3, Page 3-223, Paragraph 411.	
	2.	Check at the Training Center that an approved cabin mock up, representative of the operator's aircraft with appropriate equipment	

		installed, is being used in accordance with the certificate holder procedures.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-223, Paragraph 411.	l
	3.	Check at the Training Center that an approved cabin mockup that should be full-scale except for length is being used in accordance with the certificate holder procedures.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-223, Paragraph 411.	l
	4.	Check at the Training Center that an approved cabin mockup replicating the forces required to open the emergency exit mockups which duplicate normal and emergency conditions, with the slides or slide raft installed, is used in accordance with the certificate holder's procedures.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-223, Paragraph 411.	l
	5.	Check at the Training Center that an approved cabin mockup is equipped with mechanisms and instructions required to operate the exits that should be representative of the operator's aircraft.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-223, Paragraph 411.	l
	6.	Check at the Training Center that the certificate holder has, for it's use, a training device approved for the level of qualification for use within a specific training program.	
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph 5b.	l
	7.	Check at the Training Center that the certificate holder has, for it's use, Level 6 and Level 7 training devices that were evaluated and qualified by the National Simulator Evaluation Program.	Í
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.	l
	8.	Check at the Training Center that the certificate holder has, for it's use, Level 2 through Level 5 training devices that were evaluated and qualified by the Principal Operations Inspector.	
		Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.	l
1.4.		ach simulator or training device used in a training course specifically ed for the certificate holder?	☐ Yes ☐ No, Explain
	Related	d Performance JTIs:	l
	1.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for training or checking in a training course.	
		Sources: 121.407(a)(1)(i)	l
	2.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used in a training course and is specifically approved for the certificate holder.	
		Sources: 121.407(a)(1)(i)	l
	3.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a training course and is specifically approved for the type airplane for which the training is being conducted.	
		Sources: 121.407(a)(1)(ii)	l
	4.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a training course and is specifically approved for the type airplane for which the check is being conducted.	
	_	Sources: 121.407(a)(1)(ii) Check at the Training Center that the certificate helder has for it's use an	1
	5.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a training course and is specifically approved for the particular variation within type for which the check is	

being conducted.

Sources: 121.407(a)(1)(ii)

6. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a check is specifically approved for the particular variation within type for which the check is being conducted.

Sources: 121.407(a)(1)(ii)

7. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a training course and is specifically approved for the particular maneuver involved.

Sources: 121.407(a)(1)(iii)

8. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in a training course and is specifically approved for the particular procedure involved.

Sources: 121.407(a)(1)(iii)

9. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in training and is specifically approved for the left seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

10. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is used in training and is specifically approved for the right seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

11. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used in checks and is specifically approved for the particular maneuver involved.

Sources: 121.407(a)(1)(iii)

12. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used in checks and is specifically approved for the particular procedure involved.

Sources: 121.407(a)(1)(iii)

13. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used in checks and is specifically approved for the left seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

14. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used in checks and is specifically approved for the right seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

15. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for training replicates the performance that is required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

16. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for training replicates the functions that are required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

17. Check at the Training Center that certificate holder has for it's use an airplane simulator, used for training, replicates other characteristics that are required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

18. Check at the Training Center that the certificate holder has for it's use an

airplane simulator that is being used for checks replicates the performance that is required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

19. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for checks replicates the functions that are required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

20. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for checks replicates the other characteristics that are required for approval.

Sources: 121.135(b)(1); 121.407(a)(2)

21. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for training is modified to conform with any modification to the airplane being simulated that results in changes to performance required for approval.

Sources: 121.135(b)(1); 121.407(a)(3)

22. Check at the Training Center that the certificate holder has for it's use an airplane simulator, to be used for training, is given a daily functional preflight check before being used in accordance with certificate holder procedures.

Sources: 121.135(b)(1); 121.407(a)(4)

23. Check at the Training Center that the certificate holder has for it's use an airplane simulator, to be used for checks, is given a daily functional preflight check before being used in accordance with certificate holder procedures.

Sources: 121.135(b)(1); 121.407(a)(4)

- 24. Check at the Training Center that the certificate holder has for it's use an airplane simulator, being used for training has a daily discrepancy log. *Sources:* 121.135(b)(1); 121.407(a)(5)
- 25. Check at the Training Center that the certificate holder has for it's use an airplane simulator that is being used for checks has a daily discrepancy log.

Sources: 121.135(b)(1); 121.407(a)(5)

26. Check at the Training Center that the certificate holder's instructors enter daily discrepancies in the discrepancy log at the end of each training flight in accordance with certificate holder procedures.

Sources: 121.135(b)(1); 121.407(a)(5)

27. Check at the Training Center that the certificate holder's check airmen enter daily discrepancies in the discrepancy log at the end of each check in accordance with certificate holder procedures.

Sources: 121.135(b)(1); 121.407(a)(5)

28. Check at the Training Center that the certificate holder has for it's use a training device that is being used in a training course.

Sources: 121.407(a)(1)(i)

29. Check at the Training Center that the certificate holder has for it's use a training device that is being used in a training course and is specifically approved for the certificate holder.

Sources: 121.407(a)(1)(i)

30. Check at the Training Center that the certificate holder has for it's use a training device that is used in a training course and is specifically approved for the type airplane for which the training is being conducted.

Sources: 121.407(a)(1)(ii)

- 31. Check at the Training Center that the certificate holder has for it's use a training device that is used in a training course and is specifically approved for the type airplane for which the check is being conducted. *Sources:* 121.407(a)(1)(ii)
- 32. Check at the Training Center that the certificate holder has for it's use a training device that is used in a training course and is specifically approved for the particular variation within type for which the check is being conducted.

Sources: 121.407(a)(1)(ii)

33. Check at the Training Center that the certificate holder has for it's use a training device that is used in a check specifically approved for the particular variation within type for which the check is being conducted in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(ii)

34. Check at the Training Center that the certificate holder has for it's use a training device that is used in a training course and is specifically approved for the particular maneuver involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

35. Check at the Training Center that the certificate holder has for it's use a training device that is used in a training course and is specifically approved for the particular procedure involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

36. Check at the Training Center that the certificate holder has for it's use a training device that is used in training is specifically approved for the left seat crewmember functions involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

37. Check at the Training Center that the certificate holder has for it's use a training device that is used in training is specifically approved for the right seat crewmember functions involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

38. Check at the Training Center that the certificate holder has for it's use a training device that is being used in checks and is specifically approved for the particular maneuver involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

39. Check at the Training Center that the certificate holder has for it's use a training device that is being used in checks and is specifically approved for the particular procedure involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

40. Check at the Training Center that the certificate holder has for it's use a training device that is being used in checks and is specifically approved for the left seat crewmember functions involved in accordance with the certificate holder's procedures.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

41. Check at the Training Center that the certificate holder has for it's use a training device that is used in checks specifically approved for the right seat crewmember functions involved in accordance with the certificate

		holder's procedures.	
		Sources: 121.135(b)(1); 121.407(a)(1)(iii)	
	42.	Check at the Training Center that the certificate holder has for it's use a training device, to be used for training, is given a daily functional preflight check before being used in accordance with the certificate holder's procedures.	
		Sources: 121.135(b)(1); 121.407(a)(4)	
	43.	Check at the Training Center that the certificate holder has for it's use a training device, to be used for checking, is given a daily functional preflight check before being used in accordance with the certificate holder's procedures.	
		Sources: 121.135(b)(1); 121.407(a)(4)	
	44.	Check at the Training Center that the certificate holder has for it's use a training device used for training is equipped with a daily discrepancy log in accordance with the certificate holder's procedures.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	45.	Check at the Training Center that the certificate holder's check airmen enter daily discrepancies in the discrepancy log at the end of each check in accordance with the certificate holder's procedures.	
		Sources: 121.135(b)(1); 121.407(a)(5)	
	46.	Check at the Training Center that if the certificate holder utilizes an airplane simulator, instead of the airplane, to satisfy the in-flight requirements of 121.439 and 121.441, Appendix E and F it has been accomplished in accordance with the certificate holder's policy.	
		Sources: 121.135(b)(1); 121.407(c)(1); 121.407(c)(2)	
	47.	Check at the Training Center that the certificate holder has for it's use an airplane simulator used, instead of the airplane, to satisfy the in-flight requirements of 121.439 and 121.441, Appendices E, F, and H of this Part and this was in accordance with the certificate holder's procedures.	
		Sources: 121.135(b)(1); 121.407(c)(1); 121.407(c)(2)	
	48.	Check at the Training Center that the certificate holder has for it's use an airplane simulator that is evaluated and qualified by the National Simulator Program Manager.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-260, Paragraph 479.	
	49.	Check at the Training Center that the certificate holder's Principal Operations Inspector (POI) approved the certificate holder's use of an airplane simulator.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-260, Paragraph 479.	
	50.	Check at the Training Center that the certificate holder has, for it's use, an airplane simulator which was evaluated and qualified by the National Simulator Program Manager and meets the appropriate advisory circulars.	
		Sources: 8400.10, Volume 3, Chapter 3, Page 3-260, Paragraph 479.	
	51.	Check at the certificate holder's airplane that emergency exits and passenger oxygen systems are being trained through the use of a static airplane.	
		Sources: 8400.10, Volume, Chapter 3, Page 3-223, Paragraph 411.	
1.5.	instead	ne certificate holder use an airplane simulator approved under this section of the airplane to satisfy the pilot flight training requirements prescribed in tificate holder's approved low-altitude windshear flight training program?	☐ Yes ☐ No, Explain ☐ Not Applicable

	Related Performance JTIs:	
	 Check at the Training Center that the certificate holder has, for it's use, an airplane simulator approved under this section and is used instead of the airplane to satisfy the pilot flight training requirements, prescribed in the certificate holder's approved low-altitude windshear flight training program, in accordance, with the certificate holder's procedures. Sources: 121.135(b)(1); 121.407(d) 	
2.	Were the certificate holder's policies, procedures, instructions and information, contained in its manual, for the Simulators/Training Devices process followed?	☐ Yes ☐ No, Explain
3.	Were the Simulators/Training Devices process controls followed?	☐ Yes ☐ No, Explain
4.	Did the records for the Simulators/Training Devices process comply with the instructions provided in the certificate holder's manual?	☐ Yes ☐ No, Explain
5.	Were the process measurements for the Simulators/Training Devices process effective in identifying problems or potential problems and providing corrective action for them?	☐ Yes ☐ No, Explain
6.	Did personnel properly handle the associated interfaces by complying with other written policies, procedures, instructions and information that are related to this element?	☐ Yes ☐ No, Explain

	EPI SECTION 1 - PERFORMANCE OBSERVABLES		
	Drop-Down Menu		
1.	Personnel.		
2.	Tools and Equipment.		
3.	Technical Data.		
4.	Procedures, policies or instructions or information.		
5.	Materials.		
6.	Facilities.		
7.	Controls.		
8.	Process Measures.		
9.	Interfaces.		
10.	Desired Outcome.		
11.	Other.		

EPI SECTION 2 - MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES

Objective: The questions in this section address the responsibility and authority of the process. They are designed to assist the inspector in determining if there is a clearly identifiable, qualified, and knowledgeable person who is responsible for the process, is answerable for the quality of the process, and has the authority to establish and modify the process. (The person with the authority may or may not be the person with the responsibility.)

the	the person with the responsibility.)		
Tasl	Tasks		
	To meet this objective, the inspector must accomplish the following tasks:		
	NOTE: If no personnel or major program changes (as defined by the Principal Inspector(PI)) affecting the responsibility or authority attributes for this element have occurred since the last SAI and/or EPI was accomplished, then do not perform tasks 3-6. Answer questions 1 and 2, below, and provide the name/title.		
1.	Identify the person who has overall responsibility for the Simulators/Training Devices process.		
2.	Identify the person who has overall authority for the Simulators/Training Devices process.		
3.	Review the duties and responsibilities for the person(s) who manage the Simulators/Training Devices process documented in the certificate holder's manual.		
4.	Review the appropriate organizational chart.		
5.	Discuss the Simulators/Training Devices process with the management personnel identified in tasks 1 and 2.		
6.	Evaluate the qualifications and work experience of the management personnel identified in tasks 1 and 2.		

Que	Questions		
	To meet this objective, the inspector must answer the following questions:		
1.	Is there a clearly identified person who is responsible for the quality of the Simulators/Training Devices process?	Yes No, Explain Name/Title:	
2.	Is there a clearly identified person who has authority to establish and modify the certificate holder's policies, procedures, instructions, and information for the Simulators/Training Devices process?	Yes No, Explain Name/Title:	
3.	Does the responsible person know that he/she has responsibility for the Simulators/Training Devices process?	☐ Yes ☐ No, Explain ☐ No Change	
4.	Does the person with authority know that he/she has authority for the Simulators/Training Devices process?	☐ Yes ☐ No, Explain ☐ No Change	
5.	Does the person with responsibility for the Simulators/Training Devices process meet the qualification standards?	☐ Yes ☐ No, Explain ☐ No Change	
6.	Does the person with authority to establish and modify the Simulators/Training	Yes	

	Devices process meet the qualification standards?	☐ No, Explain ☐ No Change
7.	Does the person with responsibility understand the controls, process measurements, and interfaces associated with the Simulators/Training Devices process?	Yes No, Explain No Change
8.	Does the person with authority understand the controls, process measurements, and interfaces associated with the Simulators/Training Devices process?	Yes No, Explain No Change
9.	Does the responsible person know who has authority to establish and modify the Simulators/Training Devices process?	Yes No, Explain No Change
10.	Does the individual with authority know who has the responsibility for the Simulators/Training Devices process?	Yes No, Explain No Change

EPI SECTION 2 - MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES Drop-Down Menu 1. Assignment of responsibility. 2. Assignment of authority. 3. Does not understand procedures, policies or instructions and information. 4. Does not understand controls. 5. Does not understand process measurements. 6. Does not understand interfaces. 7. Span of control.

8. Position vacant.

9. Other.